Windbreak Interpretations

Farmstead windbreaks protect livestock, buildings, and yards from wind and snow. They also protect fruit trees and gardens, and they furnish habitat for wildlife. Several rows of low-growing and high-growing broadleaf and coniferous trees and shrubs provide the most protection.

Field windbreaks are narrow plantings made at right angles to the prevailing wind and at specific intervals across the field. The interval depends on the erodibility of the soil. Field windbreaks protect cropland and crops from wind, help to keep snow on the fields, increase crop yields, and provide food and cover for wildlife.

Each tree or shrub species has certain climatic and physiographic limits. Within these parameters a tree or shrub may be well or poorly suited because of soil characteristics. Each tree or shrub also has definable potentials of height growth based on the soil type and climate.

Information in this subsection, which includes windbreak suitability groups and a windbreak and environmental plantings table, can be used as a guide in planning windbreaks and screens.

This subsection includes:

• (a) Trees and Shrubs for Windbreak and Environmental Plantings

Table 12.--Windbreaks and Environmental Plantings

(Absence of an entry indicates that trees generally do not grow to the given height.)

Map symbol	Trees having predicted 20-year average height, in feet, of					
and soil name	<8	8-15	16-25	26-35	>35	
		[[
000:		!		! !		
arden	Common ninebark,		Eastern redcedar	! - !		
	fragrant sumac	dogwood, possumhaw	!	Norway spruce,		
	<u> </u>	1	1	common hackberry,		
	 -	1	1	honeylocust, pin		
	l I	 	 	oak I		
011:	! 	! 	 	! 		
arco	American plum,	Washington hawthorn,	Austrian pine, black	Shortleaf pine		
	common lilac,	gray dogwood	oak, common			
	fragrant sumac	I	hackberry, eastern			
		İ	redcedar, white ash	l i		
			<u> </u>	<u> </u>		
015:						
ldorado	American		Virginia pine, black			
	cranberrybush,	common	oak, blackgum,			
	American plum, common juniper,	serviceberry, eastern redcedar,	common hackberry,			
	coralberry,	smooth sumac	shortleaf pine	:		
	roughleaf dogwood	Smooth Sumae		;		
	Toughteat dogwood	l İ	! [! !		
016:		į	İ	j		
ldorado	American	Washington hawthorn,	Virginia pine, black			
	cranberrybush,	common	oak, blackgum,			
	American plum,	serviceberry,	common hackberry,			
	common juniper,	eastern redcedar,	shortleaf pine			
	coralberry,	smooth sumac				
	roughleaf dogwood		!	!		
017:	 	 	 	 		
plegrove	 Common ninebark,	Amur maple, gray	 Eastern redcedar			
ipiogrove	fragrant sumac	dogwood, possumhaw	l	Norway spruce,		
	114914110 241140	l	i I	common hackberry,		
	i	i	İ	honeylocust, pin		
	İ	i	i	oak		
	İ	İ	İ	j		
)18:	l	1		İ		
edoc	Common ninebark,	Amur maple, gray	Eastern redcedar	Austrian pine,		
	fragrant sumac	dogwood, possumhaw		Norway spruce,		
				common hackberry,		
				honeylocust, pin		
	i .			oak		

Table 12.--Windbreaks and Environmental Plantings--Continued

Map symbol	 	Trees having predicted 20-year average height, in feet, of				
and soil name	<8	8-15	16-25	26-35	>35	
40019: Newtonia	 Northern spicebush, redosier dogwood, silky dogwood, black chokeberry, mapleleaf viburnum	 American hazelnut, American plum, blackhaw, common serviceberry, prairie crabapple, roughleaf dogwood, smooth sumac, southern arrowwood	Washington hawthorn, nannyberry, arborvitae, eastern redcedar, pecan, red pine, white oak	hackberry, green	 Eastern white pine, eastern cottonwood 	
Eldorado	American cranberrybush, American plum, common juniper, coralberry, roughleaf dogwood	Washington hawthorn, common serviceberry, eastern redcedar, smooth sumac	Virginia pine, black oak, blackgum, common hackberry, shortleaf pine	 	 	
40020: Newtonia	 Northern spicebush, redosier dogwood, silky dogwood, black chokeberry, mapleleaf viburnum	American hazelnut, American plum, blackhaw, common serviceberry, prairie crabapple, roughleaf dogwood, smooth sumac, southern arrowwood	Washington hawthorn, nannyberry, arborvitae, eastern redcedar, pecan, red pine, white oak	hackberry, green	 Eastern white pine, eastern cottonwood 	
Eldorado	American cranberrybush, American plum, common juniper, coralberry, roughleaf dogwood	 Washington hawthorn, common serviceberry, eastern redcedar, smooth sumac	 Virginia pine, black oak, blackgum, common hackberry, shortleaf pine 	 	 	
40021: Opolis	 Common ninebark, fragrant sumac 	 Amur maple, gray dogwood, possumhaw 	 Eastern redcedar 	 Austrian pine, Norway spruce, common hackberry, honeylocust, pin oak	 	
Hepler	 American plum, fragrant sumac 	 Blackhaw, gray dogwood 	 Washington hawthorn, eastern redcedar, nannyberry 	 Baldcypress, green ash, sweetgum 	 Eastern white pine, pin oak 	

	Trees having predicted 20-year average height, in feet, of						
Map symbol			16.05				
and soil name	<8	8-15	16-25	26-35	>35		
40022:		ļ		1	 		
0polis	 Common ninebark	Amur maple, gray	 Eastern redcedar	 Augtrian nine	! !		
OPOIIB	fragrant sumac	dogwood, possumhaw		Norway spruce,	 		
	III GIUNE DUMAE	dognood, pobbamian		common hackberry,	! !		
	i	i	i	honeylocust, pin	i I		
	i	i	İ	oak	į		
	İ	İ	İ	ĺ	ĺ		
40023:		I					
Opolis	•	Amur maple, gray	Eastern redcedar	·	!		
	fragrant sumac	dogwood, possumhaw		Norway spruce,	!		
		!		common hackberry,			
		1		honeylocust, pin oak	 		
	 			Oak	! 		
40024:	i	i		İ	İ		
Opolis	Common ninebark,	Amur maple, gray	Eastern redcedar	Austrian pine,	j		
	fragrant sumac	dogwood, possumhaw		Norway spruce,			
	!	ļ	ļ	common hackberry,	!		
		!		honeylocust, pin	!		
	l i	l i		oak	l i		
40026:	I Ī	i İ		! [! [
Sylvania	Common ninebark,	Amur maple, gray	Eastern redcedar	Austrian pine,	j		
	fragrant sumac	dogwood, possumhaw		Norway spruce,			
		I		common hackberry,			
	!	!	!	honeylocust, pin	<u> </u>		
				oak			
1 0027:	 			 	 		
Sylvania	Common ninebark,	Amur maple, gray	Eastern redcedar	Austrian pine,			
_	fragrant sumac	dogwood, possumhaw	İ	Norway spruce,	İ		
	İ	İ		common hackberry,	ĺ		
		I		honeylocust, pin			
				oak			
40028:				 	 		
40028: Sylvania	 Common ninebark	Amur maple, gray	 Eastern redcedar	 Austrian pine.	! 		
	fragrant sumac	dogwood, possumhaw		Norway spruce,	İ		
				common hackberry,	İ		
	i	i	İ	honeylocust, pin	i		
	İ	İ	İ	oak	İ		
	ļ	İ	!	ļ	ļ		
40029:	 		 				
Sylvania	!	Amur maple, gray	Eastern redcedar	:			
	fragrant sumac	dogwood, possumhaw	I I	Norway spruce, common hackberry,	I I		
	!	!	!	Common nackberry,	!		

honeylocust, pin

oak

 ${\tt Table~12.--Windbreaks~and~Environmental~Plantings--Continued}\\$

Table 12.--Windbreaks and Environmental Plantings--Continued

Map symbol	Trees having predicted 20-year average height, in feet, of					
and soil name	<8	8-15	16-25	26-35	>35	
			1			
44000: Cherokee	 Common ninebark, fragrant sumac 	 Amur maple, gray dogwood, possumhaw 	 Eastern redcedar 	Austrian pine, Norway spruce, common hackberry, honeylocust, pin	 	
44002: Carl 44004: McCune 46001: Verdigris	Buttonbush, common elderberry, common ninebark, gray dogwood, redosier dogwood, silky dogwood American plum, fragrant sumac American plum,	Cockspur hawthorn, hazel alder, nannyberry, roughleaf dogwood	Arborvitae, blackgum, green hawthorn, overcup oak, common hackberry Washington hawthorn, eastern redcedar, nannyberry Washington hawthorn,	oak Green ash, swamp white oak, baldcypress, river birch, sweetgum, willow oak, red maple Baldcypress, green ash, sweetgum Baldcypress, green	Pin oak, eastern cottonwood	
46002: Hepler	fragrant sumac American plum, fragrant sumac	dogwood Blackhaw, gray dogwood	eastern redcedar, nannyberry Washington hawthorn, eastern redcedar, nannyberry	ash, sweetgum	pin oak Eastern white pine pin oak	
46004: Osage	 Buttonbush, common elderberry, common ninebark, gray dogwood, redosier dogwood, silky dogwood	Cockspur hawthorn, hazel alder, nannyberry, roughleaf dogwood	hamyberry	Green ash, swamp white oak, baldcypress, river birch, sweetgum, willow oak, red maple	 - Pin oak, eastern cottonwood -	
46005: Verdigris	 American plum, fragrant sumac 	 Blackhaw, gray dogwood 	 Washington hawthorn, eastern redcedar, nannyberry	Baldcypress, green ash, sweetgum	 Eastern white pine pin oak 	
70006: Creldon	 American plum, common lilac, fragrant sumac 	Amur maple, Washington hawthorn, gray dogwood	 Austrian pine, Virginia pine, common hackberry, eastern redcedar, honeylocust	 	 	

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Map symbol					
and soil name	<8	8-15	16-25	26-35	>35
012:]
berg	American cranberrybush, American plum, common juniper, coralberry, roughleaf dogwood	Washington hawthorn, common serviceberry, eastern redcedar, smooth sumac	Virginia pine, black oak, blackgum, common hackberry, shortleaf pine	 	
045:				 	
eeno	 American plum, common lilac, fragrant sumac 	Amur maple, Washington hawthorn, gray dogwood	Austrian pine, Virginia pine, common hackberry, eastern redcedar, honeylocust	 	
056:	 			 	
rackerneck	Common lilac, fragrant sumac 	American plum, gray dogwood 	Bur oak, common hackberry, eastern redcedar, Austrian pine, green ash, honeylocust	Shortleaf pine 	
057:	 				
rackerneck	Common lilac, fragrant sumac 	American plum, gray dogwood 	Bur oak, common hackberry, eastern redcedar, Austrian pine, green ash, honeylocust	Shortleaf pine 	
058:	İ	İ			
rackerneck	Common lilac, fragrant sumac -	American plum, gray dogwood	Bur oak, common hackberry, eastern redcedar, Austrian pine, green ash, honeylocust	Shortleaf pine 	
059:					
oss	Common lilac, fragrant sumac 	American plum, gray dogwood 	Bur oak, common hackberry, eastern redcedar, Austrian pine, green ash, honeylocust	Shortleaf pine - -	

Table 12.--Windbreaks and Environmental Plantings--Continued

Table 12.--Windbreaks and Environmental Plantings--Continued

Map symbol	Trees having predicted 20-year average height, in feet, of					
and soil name	<8	8-15	16-25	26-35	>35	
0060: Hoberg	 American cranberrybush, American plum, common juniper, coralberry,	 Washington hawthorn, common serviceberry, eastern redcedar, smooth sumac	Virginia pine, black oak, blackgum, common hackberry, shortleaf pine	 	 	
Eldorado	roughleaf dogwood American cranberrybush, American plum, common juniper, coralberry, roughleaf dogwood	i I	 Virginia pine, black oak, blackgum, common hackberry, shortleaf pine	 	 	
Pomme	American cranberrybush, American plum, common juniper, coralberry, roughleaf dogwood	Washington hawthorn, common serviceberry, eastern redcedar, smooth sumac	 Virginia pine, black oak, blackgum, common hackberry, shortleaf pine	 	 	
0061: Pomme	 American cranberrybush, American plum, common juniper, coralberry, roughleaf dogwood	 Washington hawthorn, common serviceberry, eastern redcedar, smooth sumac	 Virginia pine, black oak, blackgum, common hackberry, shortleaf pine	 	 	
0062: Pomme	American cranberrybush, American plum, common juniper, coralberry, roughleaf dogwood	 Washington hawthorn, common serviceberry, eastern redcedar, smooth sumac	 Virginia pine, black oak, blackgum, common hackberry, shortleaf pine	; 	 	
Rueter	 Common lilac, fragrant sumac 	 American plum, gray dogwood 	Bur oak, common hackberry, eastern redcedar, Austrian pine, green ash, honeylocust	 Shortleaf pine 	 	

	Trees having predicted 20-year average height, in feet, of						
Map symbol							
and soil name	<8	8-15	16-25	26-35	>35		
H0063		ļ					
70063: Rueter	 Common lilac	 American plum, gray	 Bur oak common	 Shortleaf pine	 		
Ruccel	fragrant sumac	dogwood	hackberry, eastern		! 		
	j	į	redcedar, Austrian	İ	İ		
		[pine, green ash,				
			honeylocust				
70064:]]]]]]	 	 		
Rueter	Common lilac,	American plum, gray	Bur oak, common	 Shortleaf pine	! 		
	fragrant sumac	dogwood	hackberry, eastern	i -	İ		
	[[redcedar, Austrian	[[
			pine, green ash,				
	 	l I	honeylocust	 	 		
70065:	! 	i İ	i İ	! 	! 		
Rueter	Common lilac,	American plum, gray	Bur oak, common	Shortleaf pine			
	fragrant sumac	dogwood	hackberry, eastern	<u> </u>	<u> </u>		
		1	redcedar, Austrian				
	1 	1 [pine, green ash, honeylocust	 	 		
	İ	İ			 		
70066:	İ	İ	İ	İ	İ		
Winnipeg	-	American hazelnut,		Norway spruce, black			
	redosier dogwood,	American plum, blackhaw, common	nannyberry, arborvitae, eastern	walnut, tuliptree, blackgum, common	eastern cottonwood		
	black chokeberry,	serviceberry,	redcedar, pecan,	hackberry, green	 		
	mapleleaf viburnum	prairie crabapple,	red pine, white oak		İ		
	İ	roughleaf dogwood,	İ	oak	İ		
		smooth sumac,					
	 	southern arrowwood	 	 	 		
71751:	! 	i İ	i İ	! 	! 		
Bearthicket	American plum,	Blackhaw, gray	Washington hawthorn,	Baldcypress, green	Eastern white pine,		
	fragrant sumac	dogwood	eastern redcedar,	ash, sweetgum	pin oak		
		1	nannyberry				
73031:]] 	 	 		
Gerald	American plum,	Amur maple,	Austrian pine,				
	common lilac,	Washington	Virginia pine,	İ	İ		
	fragrant sumac	hawthorn, gray	common hackberry,	<u> </u>	<u> </u>		
		dogwood	eastern redcedar,	 	 		
	!	!	honeylocust	!	I		

Table 12.--Windbreaks and Environmental Plantings--Continued

Table 12.--Windbreaks and Environmental Plantings--Continued

	I	Trees having predicted 20-year average height, in feet, of						
Map symbol								
and soil name	<8	8-15	16-25	26-35	>35			
	1	1			I			
75376:	i	į	i i		į			
Cedargap	- American	Washington hawthorn	, Virginia pine, black					
	cranberrybush,	common	oak, blackgum,					
	American plum,	serviceberry,	common hackberry,					
	common juniper,	eastern redcedar,	shortleaf pine					
	coralberry,	smooth sumac	i i		ĺ			
	roughleaf dogwood	İ	i i		İ			